

Date: Mon, 24 May 93 10:10:08 PDT  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V93 #633  
To: Info-Hams

Info-Hams Digest                      Mon, 24 May 93                      Volume 93 : Issue    633

Today's Topics:

          Alinco DJ-580 question  
          Alinco gets hot  
          G5RV Expert Advise  
          HTX-202 and pl usage  
          Icom 735 help?  
          ICOM IC2KL Experience  
          ICOM IC2 SAT HT  
Looking for comments on Alinco DJ580  
Low SWR for the "right" reasons  
Quagi polarization  
Question: Can a novice take the extra test?  
Radio Shack 70cm HT?  
Recommendations wanted for SAT QSO's  
roof mounted tri-band beam  
Splatter (was: Signal report etiquette)  
Systems/weatherfax/printer/software

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: Mon, 24 May 1993 14:27:57 GMT  
From: swrinde!emory!news-feed-1.peachnet.edu!darwin.sura.net!rsg1.er.usgs.gov!  
resdgs1.er.usgs.gov!tbodoh@network.UCSD.EDU  
Subject: Alinco DJ-580 question  
To: info-hams@ucsd.edu

--

I just bought an Alinco DJ-580T and am considering whether to open up the wide coverage receive. Does snipping the one wire simply allow the CPU to program the additional frequencies or does that wire enable more circuitry which will lead to more intermod and imaging on the 2m and 70cm bands? In other words - is reception going to get worse or is it as bad as it will get (are the RF stages for the extended receive already active but limited by the CPU?). Thanks...

```
+++++
+ Tom Bodoh - Sr. systems software engineer
+
+ USGS/EROS Data Center, Sioux Falls, SD, USA 57198      (605) 594-6830      +
+ Internet; bodoh@dgg.cr.usgs.gov (152.61.192.66)
+
+ "Welcome back my friends to the show that never ends!" EL&P
+
+++++
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Date: Mon, 24 May 1993 15:03:39 GMT  
From: pacbell.com!att-out!cbnews1!dara@network.UCSD.EDU  
Subject: Alinco gets hot  
To: info-hams@ucsd.edu

After reading all the comments on hot (thermal) Alinco s, I decided to test my new HTX 202. I hooked up a 13.8 V supply, a power meter and a dummy load

After 2 min key down:

- 1) the rig got a tiny bit warm but not enough to warm the belt clip.
- 2) the pwr out fell from 6.8W cold to 5 W after 2 min  
(the pwr changed as a function of warmth)
- 3) repeating the above at 12 V, the pwr stayed nearly constant

How long have you guys held that mike button (any blisters?)

WA2UBK Shel

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Date: 24 May 93 15:30:23 GMT  
From: auratek!epacyna@uunet.uu.net  
Subject: G5RV Expert Advise  
To: info-hams@ucsd.edu

Walt Maxwell in his book Reflections published by the ARRL is a must reading. His treatment on SWR, Baluns, Antennas (including the G5RV) is accurate and lucid.

73's

Ed W1AAZ

-----  
Date: 24 May 93 16:06:27 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: HTX-202 and pl usage  
To: info-hams@ucsd.edu

Received: from rigel.mc.xerox.com (rigel.eso.mc.Xerox.COM) by zombi  
(4.1/SMI-4.1) id AA00983; Mon, 24 May 93 12:06:20 EDT

A friend's Radio Shack HTX-202 is operating differently than my Yeasu 411 when we both try to access a repeater that has a pl (CTCSS) tone squelch. When he releases the PTT, the HTX-202 receiver does not immediately turn on. The lcd bar-graph indicates the radio is still transmitting (tho it is not) and because the receiver has not yet resumed, some audio is missed..... typically the first word or two. The receive audio doesn't come on for a full second or so when the radio is set to "tc=123.0", "rc=OFF".

If the transmit pl is turned off (indicated as "tc = OFF"), the HTX-202 receiver resumes almost instantly after releasing the PTT button. In neither case is receive pl used on the HTX-202.

What's the deal? Is this normal operation for the 202? It makes pl operation almost useless because of the slow operation and missed words.

=Mark=  
phillips.henr801c@xerox.com

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Date: Mon, 24 May 1993 14:56:20 GMT  
From: pacbell.com!att-out!cbnews1!dara@network.UCSD.EDU  
Subject: Icom 735 help?  
To: info-hams@ucsd.edu

In article <wier-230593211435@csci-wiermac.etsu.edu>, wier@merlin.etsu.edu (Bob Wier) writes:

> Recently, in order to get ready for an upcoming trip,  
> I stuck the rig into the car and found  
> that 10 meters is out. I get no power  
> output, and don't hear anything either.  
>

> Now 10 meters isn't really usable now,  
 > but it would be nice to have it working.  
 > I highly suspect that since I was using  
 > the rig as a computer controlled receiver  
 > back in one of my digital design/real time  
 > programming classes last fall that one of  
 > my students pushed the XMIT button when  
 > I wasn't around and zapped it -  
 >  
 > All the other bands work ok as far as I can  
 > tell. Can anyone tell me if there MIGHT  
 > be a fuse or something which might be blown  
 > and thus would be fixable myself? I suspect  
 > that just one set of modules isn't working since  
 > the rig is not working from 22 Mhz upward, which  
 > is where you hear an internal relay click as you  
 > tune on up from 15 meters...unfortunately in looking  
 > around the schematic, I don't see anything that  
 > looks like a fuse (sigh)...  
 >  
 > I'd just as soon avoid sending it to the  
 > service center if I can...  
 >  
 > THANKS de WB5KXH  
 >  
 > ---Bob Wier  
 >  
 > ----- insert usual disclaimers here -----  
 > Bob Wier / keeper of the Motorola HC11, Adobe Photoshop  
 > interest lists  
 > internet: wier@merlin.etsu.edu (watch for address change)

Bob: I would look at the vco and probably replace the varactor diode  
 that is used in the vco for 22 - 30 MHz. There are several vco's  
 and each has a different band (several Ham bands)  
 Hope this helps.  
 Shel WA2UBK

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 Date: 24 May 1993 12:03 EST  
 From: usc!howland.reston.ans.net!usenet.ins.cwru.edu!lerc.nasa.gov!  
 lims01.lerc.nasa.gov!lwwald@network.UCSD.EDU  
 Subject: ICOM IC2KL Experience  
 To: info-hams@ucsd.edu

I just wonder if anyone has any experience with the subject ss amp for ICOM  
 products. It seems like a nice little unit.

Larry, KE8GW

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Date: 24 May 1993 16:37:08 GMT  
From: swrinde!gatech!howland.reston.ans.net!europa.eng.gtefsd.com!slc20!  
wwhitby@network.UCSD.EDU  
Subject: ICOM IC2 SAT HT  
To: info-hams@ucsd.edu

Has anybody had any experience, good or bad, with the ICOM IC2 SAT HT? Please e-mail me your responses.

---  
Warren Whitby                      wwhitby@mtgy.gtegsd.com  
GTE Government Systems  
x5459

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Date: 24 May 93 15:56:41 GMT  
From: usc!howland.reston.ans.net!gatech!news-feed-1.peachnet.edu!concert!duke!  
news.duke.edu!ee.egr.duke.edu!jbs@network.UCSD.EDU  
Subject: Looking for comments on Alinco DJ580  
To: info-hams@ucsd.edu

In article <D60y4B2w165w@jackatak.raider.net> martinbw@jackatak.raider.net (Bruce Martin) writes:

>While it is possible to modify the DJ-580 to expand both RX & TX I do not  
>recommend either of them. I did them both and later retrofitted the mods.  
>Intermod can be a bit of a problem with this rig and modifying it will  
>just make it worse.

How would the extended RX/TX mods make the intermod problem worse?

-joe KD4LLV

--  
    You spend the night  
    Like you were spending a dime  
    - Lyle Lovett

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Date: Mon, 24 May 1993 18:06:26 GMT  
From: pa.dec.com!nntpd2.cxo.dec.com!nuts2u.enet.dec.com!little@decwrl.dec.com

Subject: Low SWR for the "right" reasons  
To: info-hams@ucsd.edu

rice@ttd.teradyne.com writes:

>In article <1993May17.214122.22853@nntpd2.cxo.dec.com>,  
little@nuts2u.enet.dec.com (nuts2u::little)>> [discussion of G5RV as a good match  
to 50 ohms deleted...]

>

>Kurt N. Sturba would love this guy :-) :-)

Since email to John has gone unanswered, perhaps some other reader can fill me in on the apparent humor of this post? Or does Kurt Sturba have an explanation about how an antenna system which according to its designer has high resistance and reactance provides a "good" match to 50 ohms? High coax loss (not all coax is of high quality or necessarily in good condition and hence providing the low loss claimed) or RF on the outside of the coax can both yield false low SWR indicators. Does Sturba have another explanation that Mr. Rice is referring to?

73,  
Todd  
N9MWB

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Date: 24 May 93 07:01:51 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: Quagi polarization  
To: info-hams@ucsd.edu

> Guess this is a misunderstanding on my part. I always thought  
>that a quagi was a multi-element quad that used yagi spacing and element  
>scaling. If this is the case and the parasitics are built so they don't  
>have a tuning stub then they would look the same every 90 degrees of  
>rotation. Obviously I have missed something here, I would be very  
>grateful if someone would explain what I missed.

Ahhh, now I see why you said what you said! :-)

A Quagi is an antenna (developed by Wayne Overbeck I believe) that combines that simple linear halfwave directors of a yagi with the driven element and reflector of a quad. Hence the name quagi. In the original article in QST, back in the 70's I think, he noted that some commercial UHF antenna was underachieving in the gain department as measured at a contest. Supposedly other antenna mavens told him that it was because it was hard to get a gamma match to work on 440. Looking for a better way to couple the RF to the system, he tried a loop as a driven element and it worked pretty well.

This was followed by adding the loop reflector, which likewise worked better than the linear one. As I recall, his interest was moonbounce and he built an array of 16 of them for use 'portable'.

I got interested, and looked up the original articles from which the above is paraphrased (plus or minus memory noise) when I was using them for OSCAR work and ATV. I've built about a dozen so far and they seem to work very well in both uses. I have found that you have to have at least 3 directors before the SWR settles down, and the spacing on the directors seems to be kind of odd compared to that of a standard yagi (there's one close to the DE, one with a wide gap, then they settle down to a regular spacing). On 440 mhz I use stainless or brass welding rod, a 1 by 2 and make two cross pieces of 1 by 2 to hold the loops. The directors are pinned in place with a drywall screw down from the top at right angles. Coax goes along the boom and hangs out the rear. A pair of these is what I usually use for OSCAR 13 operation on field day - for about 4 hours around apogee where spin mod isn't a problem we do very well.

For my money, the easiest UHF gain antenna to build. Check out the references to them in the Handbook and Antenna book .

Kevin - WB2EMS

-----  
Date: 24 May 93 15:40:21 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: Question: Can a novice take the extra test?  
To: info-hams@ucsd.edu

>The W5YI, ARRL, WB6NOA, and most other VEC's have made it mandatory that tests  
>be progressively given in order of license class. The student may ask to take  
>them as you describe, but the VEC's are not allowed to administer them in  
>any order other than 2,3a,3b,4a,4b. The exception is the code tests. You may  
>....

>Peter Vasilion, KB2NMV

besides the other citation already provided...here's another one.

see page 50, "orange" ARRL/VEC manual.

second column.

section titled "Written Element Credit"

3rd paragraph (the one in bold.)...

Of course, the recommendation is to take things from bottom to top in terms of

license class...

(Gordon's a VEC?....I didn't know that....)

bill "make the next cover color Teal" wb9ivr.

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Date: Mon, 24 May 1993 16:00:18 GMT  
From: emba-news.uvm.edu!newton.emba.uvm.edu!pallack@uunet.uu.net  
Subject: Radio Shack 70cm HT?  
To: info-hams@ucsd.edu

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Date: 24 May 93 11:55:24  
From: idacrd.ccr-p.ida.org!idacrd!n4hy@uunet.uu.net  
Subject: Recommendations wanted for SAT QSO's  
To: info-hams@ucsd.edu

Gary Coffman, TS-790A lover says:

>Peter, are you talking about the rig where you have to hold the SAT button  
>down with one hand while tuning with the other to get it to track? Are  
>you talking about the radio that will fry your eggs during a short QSO  
>because the thermal design is so poor? Are you talking about the radio  
>that draws 25 amps to make 22 watts out of a rated 35? Are you talking  
>about the Kenwood TS790A? Surely not.

>Gary

I could not agree with Gary more. I owned a TS-790A for over a year.  
It was a nice radio, but it was CRAP for satellite work. In the end  
I used it as a VERY expensive two meter IF for transvetters/receive  
converters. In the end, I sold it, and bought a cheaper two meter IF.  
I never used it on 70 cm, and gave up experimenting on satellites and  
continued to use my ICOM seperates. I have two friends with FT-736R  
and they are really nice radios.

Bob

--

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Robert W. McGwier | n4hy@ccr-p.ida.org  
Center for Communications Research | Interests: amateur radio, astronomy, golf  
Princeton, N.J. 08520 | Asst Scoutmaster Troop 5700, Hightstown



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Date: 24 May 93 15:32:36 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: roof mounted tri-band beam  
To: info-hams@ucsd.edu

I'm interested in getting a tri-band beam (maybe something like a Cushcraft A3S) up in the air without putting up a tower. I've heard of people roof mounting such antennas, and am looking for advice from those that have either done it or have researched it and decided it's a bad idea. I live in a split entry home that is about 20' from the ground to roof peak. So:

- is this feasible?
- what types of mounts are being used to do this? tripod, quadpod?
- how much guying would be required?
- is the once a year (or every 2 year) high wind storm (> 70 MPH) we get in EMA going to preclude this idea?

Thanks in advance,  
Scott

--

Scott Ginsburg	Voice: 508-436-3836
Wellfleet Communications	Internet: ginsburg@wellfleet.com
2 Federal St.	Amateur Radio: WA2CJT
Billerica, MA 01821	Packet: wa2cjt@n0ary.#nocal.ca.usa.na

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Date: 24 May 93 15:50:10 GMT  
From: usc!howland.reston.ans.net!gatech!news-feed-1.peachnet.edu!concert!duke!news.duke.edu!ee.egr.duke.edu!jbs@network.UCSD.EDU  
Subject: Splatter (was: Signal report etiquette)  
To: info-hams@ucsd.edu

In article <1t19ekINN7es@clover.csv.warwick.ac.uk> esrlb@csv.uk.ac.warwick writes:  
>One major gripe I have (somebody touched on this earlier in the thread), is  
>the lack of willing most ops have to giving anything but T9 on CW, even  
>when the tone can be atrocious and the signal can be heard over half of the  
>band!

Speaking of which.

I've been on 10m (SSB) for a little over a month now, and several times I have had problems hearing weak signals because of splatter from DX stations much, much more than 3KHz away. My first day on the air I could hear splatter over the entire 10m Novice band from a Virgin Islands station that was obviously using a dirty amplifier. Many times since then I've gotten QRM from DX

stations as much as 15 and 20 KHz away.

What to do? Does one politely tell the offender that he's generating interference? Does one rudely tell him? Or does one not tell him at all for fear of being out of line with criticisms about something he's relatively new to? I opted for a passive-aggressive variant of that last option, where I merely complained about it to the stations I was having a hard time copying.

Advice?

-joe KD4LLV

P.S. - My rig is an ICOM 751 if that tells you anything about the selectivity I should expect.

--

You spend the night  
Like you were spending a dime  
- Lyle Lovett

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Date: 23 May 93 22:30:29 EDT  
From: psinntp!arrl.org@uunet.uu.net  
Subject: Systems/weatherfax/printer/software  
To: info-hams@ucsd.edu

#### FOR SALE

#### Computer System #1

#### Tri-Star 80386/20-MHz system

- o 8 Mb RAM installed on motherboard
- o Slot for additional RAM board
- o Math coprocessor installed
- o Two (2) 65-Mb Mitsubishi hard disk drives
- o One (1) 3.5-inch, 1.44-Mb floppy
- o One (1) 5.25-inch 1.2Mb floppy
- o NEC 3D 14-inch SVGA monitor with tilt/swivel stand
- o Boca Super VGA video card with 1 Mb RAM
- o 200-Watt power supply
- o Tower case
- o FK-2001 keyboard
- o Operating/technical manuals

System is in \*excellent\* condition: \$1300, or best offer.  
(See Tri-Star's ads in "PC Magazine.")

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## Computer System #2

XPC 8088 4.77/8-MHz turbo system

- o Math coprocessor installed
- o Two (2) 360-kb floppy disk drives
- o One (1) 30-Mb hard disk drive
- o BASIC in ROM (use with IBM BASIC/BASICA files)
- o CompuAdd 12-inch mono VGA display (almost new; used little)
- o ATI video card with 512 kb RAM
- o Desktop case
- o 200-Watt, double-fan power supply (not the 65-Watt original)
- o Northgate Omnikey Plus keyboard
- o Operating/technical reference manuals
- o IBM PC-XT technical reference manuals (2):  
"Technical Reference Personal Computer XT and Portable  
Personal Computer" and Hardware Maintenance Service."

### Note:

(I'll sell the two-manual combination separately for \$40.  
The System price is then \$40 less (\$360, or best offer).

System is in \*excellent\* condition: \$400, or best offer

(More)

=====

### Other Hardware Items available:

Boca SVGAX1 Super VGA card, 1 Mb RAM, 32k colors .....\$100

Epson LQ-850 printer, like new, very little use ..... \$350  
(Printer is supplied with six (6) new ribbons.)

Epson ribbon re-inker.....\$25  
(Works \*very\* well and pays for itself quickly.)  
Computer floor stand for vertical mounting .....\$5

Central Point Copy II Plus board and software, and the  
Copy II PC software only version. Both for.....\$40

HP-16C Programmer's Calculator (like new).....\$35

Vanguard WEPIX 2000-B Environmental Satellite Receiver...\$300  
(This receiver is brand new, never put to use.)

Vanguard WEFAXTENNA Model APT-2 with low-noise preamp.....\$100  
(In very good condition. One (of eight) ground-plane rod  
broken. Preamp mounts internally at the antenna -- protected  
from the elements, or you can remove it for in-station use.  
BNC connectors on cable make this very easy to do.)

OFS weatherfax board and software.....\$250  
(V 2 and 3 software. Can be easily upgraded to add recent  
circuit changes and V 5 software. See the OFS ads in  
"Weatherwise," "QST" and other magazines.)

=====

Software available:

Norton Desktop for DOS (unopened).....\$45

Lotus Magellan.....\$25

Microsoft Macro Assembler 5.0.....\$50

IBM Macro Assembler 2.0.....\$50

Gato.....\$15  
(Action game with a modern edition of Cornelius van Drebbel's  
submersible.)

F-15 Strike Eagle.....\$15  
(Action game in which you pilot a recent version of the Wright  
brothers' invention.)

Borland Sprint Word Processor.....\$35

(More)

=====

For all items, I prefer pick up. Otherwise, please add shipping costs. I refund overpayment in excess of \$1.50.

Please provide me with your full address and a daytime phone and/or fax number at which I can reach you.

Thanks.

Paul Pagel/N1FB  
American Radio Relay League  
225 Main St  
Newington, CT 06111 203-666-1541

PKP in Tech Ext 296

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Date: 24 May 1993 10:35:45 -0400  
From: usc!howland.reston.ans.net!noc.near.net!jericho.mc.com!  
levine@network.UCSD.EDU  
To: info-hams@ucsd.edu

References <1tjbru\$1rm@charm.magnus.acs.ohio-state.edu>,  
<C7EB0q.7oz@unccsun.uncc.edu>, <1tk4h9\$qss@apple.com>p  
Subject : Re: Question: Can a novice take the extra test?

There is a thread regarding whether an unlicensed person can come in off the street and just take the Extra Class exams. There is no requirement that you take any tests in any order, only that you must possess the correct credits to earn a license.

A good example is the guy who comes to a VE session claiming to be an Advanced but left his license at home. The VE Team CAN administer elements 4B & 1C (Extra theory and 20wpm) and also issue a CSCE giving element credit only. At this point the team has no idea and doesn't care if he is licensed or not. No upgrade is indicated on the CSCE and no additional privs are given. He cannot operate /AE yet. If he shows up at another VE Session with his original Advanced license and the original CSCE (and photocopies to send the FCC), a VE

Team must issue him a CSCE showing upgrade to Extra (unless they are suspicious of the CSCE) and process his 610. He must pay another fee and can then operate /AE until his license arrives.

This is just one example, you can be creative and think of others I suppose. Bottom line, there is no requirement to take and pass the elements in order, although that is the logical thing to do.

73 Bob KD1GG

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Date: Mon, 24 May 1993 15:03:05 GMT  
From: swrinde!gatech!news-feed-1.peachnet.edu!darwin.sura.net!sgiblab!newsun!  
kevin@network.UCSD.EDU  
To: info-hams@ucsd.edu

References <tpang.738123894@sfu.ca>, <4Bc14B10w165w@dogbox.acme.gen.nz>,  
<PASCAL.93May24153914@ap16.apd.cpg.sony.co.jp>  
Subject : Re: RFI from ZyXEL modem to 2way radio

In article <PASCAL.93May24153914@ap16.apd.cpg.sony.co.jp>  
pascal@apd.cpg.sony.co.jp (Pascal Goguey) writes:  
>In article <4Bc14B10w165w@dogbox.acme.gen.nz> dogbowl@dogbox.acme.gen.nz  
(Kennelmeister) writes:  
> \*  
> \*Yes, the nickel spray is conductive. ( 0.5 ohms / sq metre )  
> \*  
> Just a detail : if you're talking about resistivity, the unit  
>is not ohm / m^2, but ohm \* m^2.  
>--  
> Pascal Goguey Sony Corporation (\$@GC9%7Z(J \$@8d7](J)  
> Communication Products Group Audio Products Div  
> Atsugi TEC, Japan

If you want to get really picky the correct unit is ohms per square!  
Notice that it is dimensionless.

Kevin White

-----  
Date: (null)  
From: (null)  
again..if it's a gift. They might not want them to know about it. How about  
looking up there call sign in the CALL BOOK?

--

Internet: pallack@wsyd.com

FidoNet: 1:325/101.0

CompuServe: 72636,2123

Data/BBS: 802-453-6074 (1200-9600 HST DS)

James Pallack, N1PEC

P.O. Box 5035

Burlington, VT 05402-5035

Voice: 802-453-6073

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End of Info-Hams Digest V93 #633

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